CLAIMS

1. A solid electrolytic capacitor comprising:

a capacitor element including an element body and a conductive wire extending therefrom;

a first electrode electrically connected to the element body;

a second electrode electrically connected to the conductive wire; and

a resin package integrally sealing said parts;

each of the first electrode and the second electrode comprising a conductive plate and having a lower surface exposed at a lower surface of the resin package for serving as a terminal surface;

the first electrode having an upper surface to which the element body is connected;

the second electrode having an upper surface to which the conductive wire is connected via a conductive bolster.

2. The solid electrolytic capacitor according to claim 1, wherein the lower surface of the first electrode is stepped, the upper surface being larger in area than the terminal surface.

3. The solid electrolytic capacitor according to claim 1, wherein the lower surface of the first electrode is partially etched to be stepped.

4. The solid electrolytic capacitor according to claim 1, wherein

the upper surface of the second electrode has an edge formed with a stepped portion.

5. The solid electrolytic capacitor according to claim 4, wherein the stepped portion is formed by partially etching the upper surface of the second electrode.

6. The solid electrolytic capacitor according to claim 1, wherein the conductive bolster is in the form of a rectangular parallelepiped, at least one end surface of the conductive bolster being exposed at a side surface of the resin package.

7. The solid electrolytic capacitor according to claim 1, wherein the conductive wire is formed of tantalum;

the conductive bolster being formed of nickel or an alloy containing nickel;

these two members being connected to each other by resistance welding.

8. The solid electrolytic capacitor according to claim 1, wherein the element body is connected to the upper surface of the first electrode with a conductive adhesive;

the conductive bolster being connected to the upper surface of the second electrode with a conductive adhesive.

9. A method of making a solid electrolytic capacitor which comprises a capacitor element including an element body and a conductive wire extending therefrom, and a resin package for sealing the capacitor element, the method comprising the steps of:

preparing a plate-like fabrication frame including a plurality of unit regions arranged in a matrix, each of the unit regions including a first and a second electrodes having respective inner ends spaced from each other by a predetermined distance;

connecting an element body of a capacitor element to an upper surface of each of the first electrodes and connecting a conductive wire extending from the element body to an upper surface of a corresponding one of the second electrodes via a conductive bolster;

providing an intermediate article by resin-sealing the fabrication frame to enclose the capacitor elements while exposing the lower surfaces of the first electrodes and the second electrodes; and

dividing the intermediate article into each of the unit regions.

10. The method of making a solid electrolytic capacitor according to claim 9, wherein the connecting step comprises connecting the conductive bolster to the conductive wire by resistance welding, connecting the element body to the upper surface of the first electrode with a conductive adhesive, and connecting

the conductive bolster to the upper surface of the second electrode with a conductive adhesive.

11. A solid electrolytic capacitor comprising:

a substrate including an upper surface formed with a first and a second electrodes, and a lower surface formed with terminal surfaces electrically connected to the first and the second electrodes, respectively;

a capacitor element including an element body and a conductive wire extending therefrom; and

a resin package for sealing the capacitor element;

the element body being connected to the first electrode of the substrate;

the conductive wire being connected to the second electrode of the substrate via a conductive bolster.

12. The solid electrolytic capacitor according to claim 11, wherein the conductive bolster is in the form of a rectangular parallelepiped, at least one end surface of the conductive bolster being exposed at a side surface of the resin package.

13. The solid electrolytic capacitor according to claim 11, wherein the conductive wire is formed of tantalum;

the conductive bolster being formed of nickel or an alloy containing nickel;

these two members being connected to each other by resistance welding.

14. The solid electrolytic capacitor according to claim 11, wherein the element body is connected to the upper surface of the first electrode with a conductive adhesive;

the conductive bolster being connected to the upper surface of the second electrode with a conductive adhesive.

15. A method of making a solid electrolytic capacitor which comprises a capacitor element including an element body and a conductive wire extending therefrom, and a resin package for sealing the capacitor element, the method comprising the steps of:

preparing a material board including a plurality of unit regions arranged in a matrix, each of the unit regions having an upper surface formed with a first and a second electrodes having respective inner ends spaced from each other by a predetermined distance and a reverse surface formed with terminal surfaces electrically connected to the first and the second electrodes, respectively;

connecting an element body of a capacitor element to each of the first electrodes and connecting a conductive wire extending from the element body to a corresponding one of the second electrodes via a conductive bolster;

providing an intermediate article by resin-sealing the material board to enclose the capacitor elements while exposing the terminal surfaces; and

dividing the intermediate article into each of the unit regions.

16. The method of making a solid electrolytic capacitor according to claim 15, wherein the connecting step comprises connecting the conductive bolster to the second electrode by resistance welding, connecting the element body to the first electrode with a conductive adhesive, and connecting the conductive bolster to the second electrode with a conductive adhesive.